LAKE: CENTER P (VLMP 21)
TOWN: SANGERVILLE
COUNTY: PISCATAQUIS

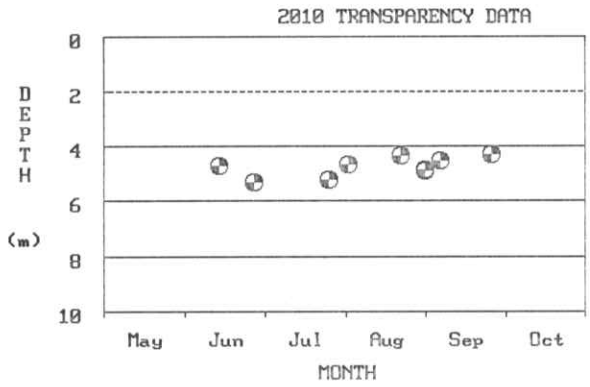
MIDAS: 760
TRUE BASIN: 1
SAMPLE STATION: 1

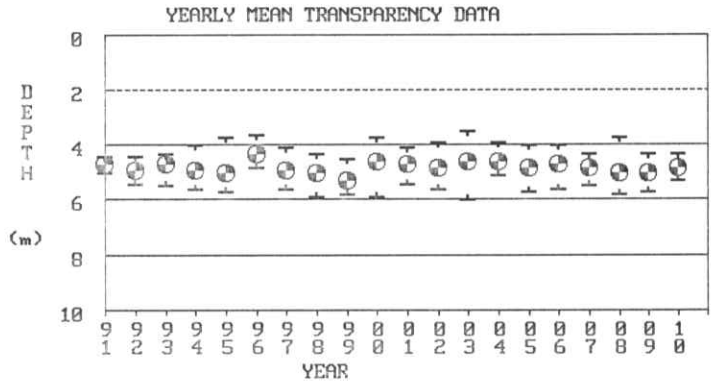
WHOLE LAKE INFORMATION
MAX. DEPTH: 6 m. (19 ft.)
MEAN DEPTH: 3 m. (9 ft.)
DELORME ATLAS #: 32
USGS QUAD: DEXTER
IFW REGION E: Moosehead Lake (Greenville)
IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS
SURFACE AREA: 135.0 ha. (333.6 a.)
FLUSHING RATE: 1.77 flushes/yr.
VOLUME: 4053248.0 cu. m. (3288 ac.-ft.)
DIRECT DRAINAGE AREA: 11.49 sq. km. (4.44 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. CENTER P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:





Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visable at bottom of lake (or one reading used in calculation was visable)].

	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb) EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	SECCHI DISK (m.) MIN.	MEAN	MAX.	N	CHLOROPHYLL A(ppb) MIN.	MEAN	MAX.	TROPHIC STATE INDICES EPI PHOS C	G	SEC	CHL
YEAR																			
1991	13	7.26	31.0	75	13	-	-	-	4.4	4.7	5.0	5	-	-	-	-	-	52	-
1992	-	-	-	-	-	-	-	-	4.4	4.9	5.4	6	-	-	-	-	-	49	-
1993	-	-	-	-	-	-	-	-	4.3	4.7	5.5	5	-	-	-	-	-	52	-
1994	8	-	19.0	-	9	-	-	-	4.0	4.9	5.6	6	3.2	3.2	3.2	-	-	49	-
1995	-	-	-	-	-	-	-	-	3.7	5.0	5.7	6	-	-	-	-	-	48	-
1996	-	-	-	-	-	-	-	-	3.6	4.3	4.8	6	-	-	-	-	-	56	-
1997	-	-	-	-	-	-	-	-	4.1	4.9	5.6	6	-	-	-	-	-	49	-
1998	6	-	-	-	-	-	-	-	4.3	5.0	5.9	6	-	-	-	-	-	48	-
1999	15	7.40	24.0	-	8	-	-	-	4.5	5.3*	5.8	5	1.2	1.8	2.5	-	-	-	-
2000	-	-	-	-	-	-	-	-	3.7	4.6	5.9	6	-	-	-	-	-	53	-
2001	5	-	-	-	-	-	-	-	4.1	4.7	5.4	6	-	-	-	-	-	52	-
2002	-	-	-	-	-	-	-	-	3.9	4.8	5.6	5	-	-	-	-	-	50	-
2003	-	-	-	-	-	-	-	-	3.5	4.6*	6.0*	6	-	-	-	-	-	-	-
2004	18	7.71	25.5	66	11	-	-	-	3.9	4.6	5.1	5	9.2	9.2	9.2	-	-	53	-
2005	15	7.30	22.5	56	12	-	-	-	4.0	4.8*	5.7	6	2.7	7.2	11.6	-	-	-	-

LAKE: CENTER P (VLMP 21)
TOWN: SANGERVILLE
COUNTY: PISCATAQUIS

MIDAS: 760
*TRUE BASIN: 1
*SAMPLE STATION: 1

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb) EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	SECCHI DISK (m.) MIN.	MEAN	MAX.	N	CHLOROPHYLL A(ppb) MIN.	MEAN	MAX.	TROPHIC STATE INDICES EPI PHOS C	G	SEC	CHL
YEAR																			
2006	-	-	-	-	-	-	-	-	4.0	4.7	5.6	5	-	-	-	-	-	52	-
2007	-	-	-	-	-	-	-	-	4.3	4.8	5.5	4	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	3.7	5.0	5.8	5	-	-	-	-	-	48	-
2009	-	-	-	-	-	8	-	-	4.3	5.0	5.7	4	-	-	-	-	-	-	-
2010	-	-	-	-	10	-	-	-	4.3	4.8	5.3	4	4.0	4.2	4.3	-	-	-	-
SUMMARY:	11	7.39	24.4	66	10	8	-	-	3.5	4.8*	6.0*20		1.2	5.1	11.6	-	-	51	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

	SAMPLE DATE											
DEPTH	08/21/91		08/16/94		08/13/99		08/26/04		08/19/05		08/30/10	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	20.5	7.8	21.9	8.3	22.2	8.6	21.8	8.3	24.6	8.7	21.6	8.3
1.0	20.5	7.9	21.9	8.2	22.1	8.7	21.6	8.3	23.4	9.0	24.4	8.4
2.0	20.5	7.9	21.9	8.2	22.1	8.6	21.6	8.3	23.1	9.1	24.3	8.5
3.0	20.5	7.9	21.8	8.2	21.6	8.5	21.5	8.2	22.9	9.1	24.2	8.5
4.0	20.5	7.9	21.6	8.2	21.1	8.4	21.5	8.2	22.7	9.5	23.2	8.3
5.0	20.5	7.8	21.4	8.2	21.1	8.3	21.3	7.8	22.6	9.9	22.7	7.8

WATER QUALITY SUMMARY

CENTER POND, SANGERVILLE
Midas: 760, Basin: Primary (01)

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Center Pond have been collected since 1991. During this period, 4 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Center Pond is considered average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Center Pond is low.

Water Quality Measures: Center Pond is a non-colored lake (average color 11 SPU) with an average SDT of 4.8 m (16 ft). The range of water column TP for Center Pond is 8 - 13 parts per billion (ppb) with an average of 10 ppb. Chla ranges from 1.2 - 9.2 ppb with an average of 4.7 ppb. Recent dissolved oxygen (DO) profiles show no DO depletion, since the lake appears to be too shallow for thermal stratification to develop during the summer. The potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at http://www.lakesofmaine.org/ and/or http://www.maine.gov/dep/blwq/lake.htm, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: cent760, Revised: 3/05, By: jp